



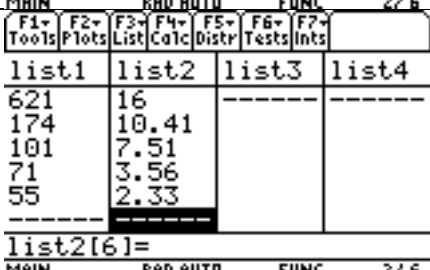






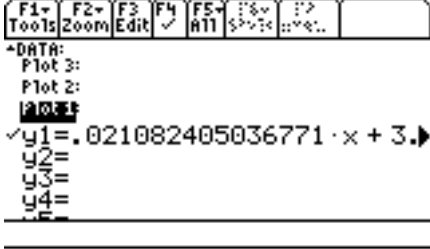
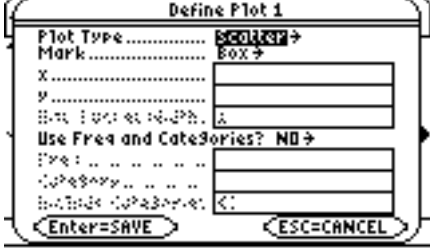
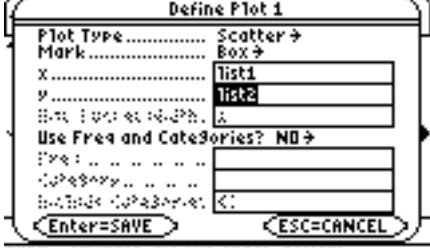
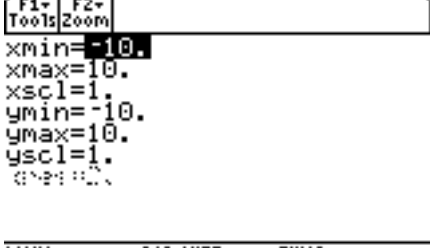


TI-89 Linear Regressions Instructions

Step	Screen Capture
From your Apps menu, select Stats/List Editor	 <p>The screen shows the 'Stats/List Editor' application. At the top, it says 'F1 Menu' and 'Stats/List Editor' with a timestamp of '7:54 AM 18/03/09'. Below the title bar are several icons: a clock for 'Planner', a graph for 'Polynomial...', a grid for 'Program Ed...', and a calculator icon for 'Simultaneo...'. The 'Stats/List Editor' icon is highlighted.</p>
With the Folder Selection Menu that now appears, simply select ENTER	 <p>The dialog box is titled 'Folder Selection for Statistics Application'. It displays 'Your Current Folder is: main' and 'Select Current Folder: main'. There is a text input field for 'Create new folder.' and an 'Enter=OK' button at the bottom.</p>
You will now see the lists, ready for data input	 <p>The screen shows a table of lists: list1, list2, list3, and list4. Below the table, it says 'list1=0'. The top of the screen shows the 'MAIN' menu with 'F1 Menu' and 'Stats/List Editor'.</p>
Enter your data for the independent variable (x- variable) in LIST 1	 <p>The screen shows the list editor with data entered in list1: 621, 174, 101, 71, and 55. The top of the screen shows the 'MAIN' menu with 'F1 Menu' and 'Stats/List Editor'.</p>
Enter your data for the dependent variable (y- variable) in LIST 2	 <p>The screen shows the list editor with data entered in list2: 16, 10.41, 7.51, 3.56, and 2.33. The top of the screen shows the 'MAIN' menu with 'F1 Menu' and 'Stats/List Editor'.</p>
Select F4 (Calc) menu and choose 3:Regressions:	 <p>The screen shows the regression menu with options: 1:1-Var Stats..., 2:2-Var Stats..., 3:Regressions, 4:Probability, 5:CorrMat..., and 6:Show Stats... The '3:Regressions' option is highlighted.</p>
From the Regressions menu, select 2:LinReg (ax + b)	 <p>The screen shows the regression menu with options: 1:LinReg(ax+bx) Stats..., 2:LinReg(ax+b) Regressions, 3:MedMed..., 4:QuadReg..., 5:CubicReg..., 6:QuartReg..., 7:LnReg..., and 8:ExpReg... The '2:LinReg(ax+b) Regressions' option is highlighted.</p>

<p>From the LinReg (ax +b) menu:</p> <p>XList → type in List1 YList → type in List2 Store RegEqn → select y1(x)</p> <p>Then hit ENTER</p>	
<p>Now your equation of the line should appear</p>	
<p>Now, to see the scatter plot and the line of best fit:</p>	
<p>Enter DIAMOND F1 to get to the graphing menu</p>	
<p>Scroll up to Plot1:</p>	
<p>Hit Enter:</p>	
<p>For the x → type in LIST1 For the y → type in LIST2</p> <p>Enter</p>	
<p>To adjust the viewing window of the graph, select DIAMOND F2</p>	

Now change your window settings (x- and y- axis on the graph). Think about the values of your data!!

```
F1→ F2→  
Tools Zoom  
xmin=0  
xmax=700.  
xsc1=100.  
ymin=0.  
ymax=20.  
yscl=2.  
Graph
```

Select DIAMOND F3 to see the scatterplot and the line of best fit

